

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch
690 Walnut Ave. St. 150
Vallejo, CA 94592-1133
(707) 649-5453
(707) 649-5493

Contract #: 04-0120F4Cty: SF/Ala Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-015871**Date Inspected:** 20-Jul-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 1900**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 700**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** See below**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Tower and OBG Components**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance Inspector (QA Inspector) George Goulet was present during the times noted above for observations relative to the work being performed.

Bay 11

This QA Inspector randomly observed the following work in progress in Bay 11:

SMAW welding of weld joint ESD1-TL5-2E/F-8B located on PCMK east tower, lift 5, internal connection plates. Alternating welders were identified as 046769, 046709. QC was identified at ZPMC CWI Liu Yang (QC1). Assisting QC1 at this location and appearing to be monitoring the welding and recording data was ZPMC QC Mao Bin Bin (QCA1), who was not a CWI. Welding variables recorded by QCA1 appeared to comply with WPS-B-T-3213-TC-U5b. Also at this location and appearing to be monitoring the welding operation was ABF Representative Wang Zhang Hua.

SMAW welding of weld joint ESD1-TL5-2F/F-8B located on PCMK east tower, lift 5, internal connection plates. Alternating welders were identified as 044541, 044551. QC was identified at QC1. Assisting QC1 at this location and appearing to be monitoring the welding and recording data was QCA1, who was not a CWI. Welding variables recorded by QCA1 appeared to comply with WPS-B-T-3213-TC-U5b. Also at this location and appearing to be monitoring the welding operation was ABF Representative Wang Zhang Hua.

Bay 10

This QA Inspector randomly observed the following work in progress in Bay 10:

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SMAW welding of weld joints SSD1-TL5-1E-F-4B, 3 located on PCMK south tower, lift 5, internal connection plates. Welder was identified as 056200. QC was identified at QC1. Assisting QC1 at this location and appearing to be monitoring the welding and recording data was ZPMC QC Yu Zhi Lai (QCA2), who was not a CWI. Welding variables recorded by QCA2 appeared to comply with WPS-B-T-3213-TC-U5b and WPS-B-T-3313-TC-P5, respectively. Also at this location and appearing to be monitoring the welding operation was ABF Representative Wang Zhang Hua.

SMAW welding of weld joints SSD1-TL5-1F-F-28B, 27 located on PCMK south tower, lift 5, internal connection plates. Welder was identified as 040582. QC was identified at QC1. Assisting QC1 at this location and appearing to be monitoring the welding and recording data was QCA2, who was not a CWI. Welding variables recorded by QCA2 appeared to comply with WPS-B-T-3213-TC-U5b and WPS-B-T-3313-TC-P5, respectively. Also at this location and appearing to be monitoring the welding operation was ABF Representative Wang Zhang Hua.

SMAW welding of weld joints SSD1-TL5-1E-F-1A, 2 located on PCMK south tower, lift 5, internal connection plates. Welder was identified as 052493. QC was identified at QC1. Assisting QC1 at this location and appearing to be monitoring the welding and recording data was QCA2, who was not a CWI. Welding variables recorded by QCA2 appeared to comply with WPS-B-T-3213-TC-U5b and WPS-B-T-3313-TC-P5, respectively. Also at this location and appearing to be monitoring the welding operation was ABF Representative Wang Zhang Hua.

SMAW welding of weld joints SSD1-TL5-1F-F-25A, 26 located on PCMK south tower, lift 5, internal connection plates. Welder was identified as 052930. QC was identified at QC1. Assisting QC1 at this location and appearing to be monitoring the welding and recording data was QCA2, who was not a CWI. Welding variables recorded by QCA2 appeared to comply with WPS-B-T-3213-TC-U5b and WPS-B-T-3313-TC-P5, respectively. Also at this location and appearing to be monitoring the welding operation was ABF Representative Wang Zhang Hua.

Bay 6

This QA Inspector proceeded to Bay 6 in response to ZPMC Inspection Notification #06241 for magnetic particle testing (MT) inspection of the following:

This QA Inspector performed random visual testing (VT) and then MT of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an MT report for this date. The member was identified as OBG item WJF-0.

The weld designations reviewed were: 026, 110, 111, 112.

No apparent indications were observed.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

No significant conversations.

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Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, 150-0042-2372, who represents the Office of Structural Materials for your project.

Inspected By:	Goulet,George
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Quality Assurance Inspector

Reviewed By:	Dawson,Paul
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QA Reviewer
